

# PROJ H3514: Capstone Project

Module Title:		Capstone Project
Language of Instruction:		English
Credits:	10	
NFQ Level:	7	
Module Delivered In		1 programme(s)
Teaching & Learning Strategies:		Lectures Practicals Site Visits Private study Project work
Module Aim:		The aim of the Project is to provide the student with the opportunity to apply the knowledge and skills learned on the programme to solve a construction or real estate problem, and in doing so extend the student's experience in problem solving, communication, teamwork, project management and interaction with industry.

Learning Outcomes		
On successful completion of this module the learner should be able to:		
LO1	Have developed problem solving abilities by identifying the problem/s and proposing both standard and innovative built environment solutions for a realistic development / re-development project	
LO2	Have developed critical thinking by evaluating the proposed solutions in terms of time, cost, quality, safety and compliance with legislation / regulations	
LO3	Apply technical knowledge and skills from other programme modules to the proposed solution including the application of BIM where appropriate and the formulation of a business viability report	
LO4	Have developed team skills by participating effectively at all levels within a team	
LO5	Have developed project, time management, project reporting, report writing, presentation, peer evaluation and project defence skills in completing the research project and the production of a technical report	

## Pre-requisite learning

**Module Recommendations**This is prior learning (or a practical skill) that is recommended before enrolment in this module.

No recommendations listed

Incompatible Modules
These are modules which have learning outcomes that are too similar to the learning outcomes of this module.

No incompatible modules listed

# Co-requisite Modules

No Co-requisite modules listed

Requirements

This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.

No requirements listed



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## **Module Content & Assessment**

### Indicative Content

#### Creativity & Problem Solving

a) Generating Creative Ideas; b) Key Principles for Encouraging Creativity; c) Linking Problems & Solutions; d) Defining Problems; e) Problem Solving; f) Evaluating and Selecting Ideas in a Group;

#### Critical Thinking

a) Interpreting express and implied meanings; b) Thinking logically; c) Formulating problems clearly and precisely; d) Gathering and assessing relevant information; e) Using abstract ideas to interpret it effectively; f) Coming to well-reasoned conclusions and solutions; g) Testing conclusions & solutions against relevant criteria and standards; h) Recognizing and assessing assumptions, implications, and practical consequences; i) Communicating effectively with others in figuring out solutions to complex problems;

#### Working in Teams

a) Purpose and value of teams; b) When teams are appropriate and when they are not; c) Team formation and operation; d) Dealing with Extrovert / Introvert team members; e) Phases of team building & understanding negative team processes; f) Team conflict resolution; g) Team talent management; h) Effective evaluation techniques; i) Application of team building activities

### **Outline Project Brief**

a) Teams of 4/5 students; b) Outline proposals for development / re-development of a property; c) Promote competition between teams; d) Team proposals evaluated on basis of technical feasability, innovation and economic feasability

### Personal Development

a) Time Management b) Presentation Skills c) Interview Skills d) Academic / technical writing skills

## **Building Information Modelling Assistance**

Use of BIM to support the Capstone Project

Assessment Breakdown		%	
	Project	100.00%	

No Continuous Assessment

Project				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Project	No Description	1,2,3,4,5	100.00	Sem 1 End

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ı	No Practical		
	1 140 1 Tactical		

No End of Module Formal Examination

SETU Carlow Campus reserves the right to alter the nature and timings of assessment



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# Module Workload

Workload: Full Time		
Workload Type	Frequency	Average Weekly Learner Workload
Lecture	30 Weeks per Stage	0.00
Practicals	30 Weeks per Stage	0.00
Estimated Learner Hours	30 Weeks per Stage	3.67
	Total Hours	110.00

# Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_CMBSE_D	Bachelor of Science in Construction Management with Buildings Services	5	Mandatory